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Sheet	1	of	3
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**Complete if Known**

Application Number	10/025,528
Filing Date	December 18, 2001
First Named Inventor	Joakim O. Blanch
Art Unit	3663
Examiner Name	Nelson Moskowitz
Attorney Docket Number	1391-26800

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
—		US- 6,449,560	09-10-2002	Kimball	
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## FOREIGN PATENT DOCUMENTS

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~~NELSON MOSGROW, A  
PRIMARY EXAMINER~~

Date  
Considered

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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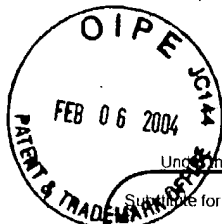
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Substitute for form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

## **Complete if Known**

Application Number	10/025,528
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First Named Inventor	Joakim O. Blanch
Art Unit	3663
Examiner Name	Nelson Moskowitz
Attorney Docket Number	1391-26800

Sheet

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of

3

## **NON PATENT LITERATURE DOCUMENTS**

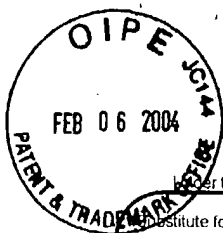
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
u		Alan Brie et al., "New Directions in Sonic Logging"; Spring 1998, (pp. 40-55); Oilfield Review	
		Batakrishna Mandal, "Shear wave Anistrophy from Single Dipose Source" (undated)	
		Chung Chang et al.; "Localized Maps of the Subsurface," (pp. 56-66) Spring 1998; Oilfield Review	
		G. Brewton, "The Geology of the Skinner, Bartlesville and Miesner Sandstones in Well DM21A At Catoosa"; Amoco publication, Nov. 1996	
		B. A. Auld, "Acoustic Fields and Waves in Solids", Vol. I (pp. 68-423), A Wiley-Interscience Publication	
		K. Koster et al., "Dipole Shear Anistrophy Logging", Amoco Publication SL3.7 (pp. 1139-1142)	
		"Faults and Faulting", EAS-A193 Class Notes, SLU (9 pp.)	
		"Seismic Waves and Earth's Interior", EAS-A193 Class Notes, SLU (13 pp.)	
		Dr. Daniel A. Ruselle, "Sound Fields Radiated by Simple Sources", Kettering University (4 pp.)	
		N. Cheng et al., "Borehole Geophysics I: Well Logging; Decomposition and particle motion of acoustic dipole log in anistrophic formation; Earth Resources Lab MIT	

Examiner Signature	<b>NELSON MOSKOWITZ</b>	Date Considered	5/14/04
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				First Named Inventor	Joakim O. Blanch
				Art Unit	3663
				Examiner Name	Nelson Moskowitz
Sheet	3	of	3	Attorney Docket Number	1391-26800

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		J.O. Blanch et al., "A Method to Extract Fast and Slow Shear Wave Velocities in an Anisotropic Formation; SEG International Exposition and 72nd Annual Meeting, 10/11/02	
		P. Carrion et al., "Source wavelet and its angular spectrum from plane-wave seismograms", geophysics, Vol. 55, No. 8 (Aug. 1990), pp. 1026-2035	
		Chuen Hon Cheng et al., "Elastic wave propagation in a fluid-filled borehole and synthetic acoustic logs", Geophysics, Vol. 46, No. 7 (July 1981), pp. 1042-1053	
		L. Thomsen, "Reflection seismology over azimuthally anisotropic media", Geophysics, Vol. 53, No. 3 (March 1988), pp. 304-313	

Examiner Signature	NELSON MOSKOWITZ PRIMARY EXAMINER	Date Considered	5/14/04
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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v1.8.0

<b>Title of Invention</b>	<b>Acoustic Logging Apparatus and Method</b>																																																																																																
<p>Application Number: 10/025528 <span style="float: right;">*10/025528*</span></p> <p>Confirmation Number: 6433</p> <p>First Named Applicant: Joakim Blanch</p> <p>Attorney Docket Number: 139126800</p> <p>Art Unit: 3663</p> <p>Examiner: Nelson Moskowitz</p> <p>Search string: ( 4794572 or 4803666 or 4817061 or 4888743 or 4903244 or 4933913 or 5027332 or 5029146 or 5136554 or 5214613 or 6188961 or 6098021 or 6526354 or 4789969 or 4648039 or 4951267 or 5398215 or 4995008 or 5999486 or 5835452 ).pn.</p>																																																																																																	
<p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>init</th> <th>Cite.No.</th> <th>Patent No.</th> <th>Date</th> <th>Patentee</th> <th>Kind</th> <th>Class</th> <th>Subclass</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">✓</td> <td style="text-align: center;">1</td> <td style="text-align: center;">4794572</td> <td style="text-align: center;">1988-12-27</td> <td style="text-align: center;">Sondergeld</td> <td></td> <td style="text-align: center;">367</td> <td style="text-align: center;">31</td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">2</td> <td style="text-align: center;">4803666</td> <td style="text-align: center;">1989-02-07</td> <td style="text-align: center;">Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4817061</td> <td style="text-align: center;">1989-03-28</td> <td style="text-align: center;">Alford et al.</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">4</td> <td style="text-align: center;">4888743</td> <td style="text-align: center;">1989-12-19</td> <td style="text-align: center;">Thomsen</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">5</td> <td style="text-align: center;">4903244</td> <td style="text-align: center;">1990-02-20</td> <td style="text-align: center;">Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">6</td> <td style="text-align: center;">4933913</td> <td style="text-align: center;">1990-06-12</td> <td style="text-align: center;">Thomsen</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">7</td> <td style="text-align: center;">5027332</td> <td style="text-align: center;">1991-06-25</td> <td style="text-align: center;">Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">8</td> <td style="text-align: center;">5029146</td> <td style="text-align: center;">1991-07-02</td> <td style="text-align: center;">Alford</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">9</td> <td style="text-align: center;">5136554</td> <td style="text-align: center;">1992-08-04</td> <td style="text-align: center;">Thomsen et al.</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">10</td> <td style="text-align: center;">5214613</td> <td style="text-align: center;">1993-05-25</td> <td style="text-align: center;">Esmeroy</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">[ ]</td> <td style="text-align: center;">11</td> <td style="text-align: center;">6188961</td> <td style="text-align: center;">1991-02-13</td> <td style="text-align: center;">Mandal</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	✓	1	4794572	1988-12-27	Sondergeld		367	31	[ ]	2	4803666	1989-02-07	Alford				[ ]	3	4817061	1989-03-28	Alford et al.				[ ]	4	4888743	1989-12-19	Thomsen				[ ]	5	4903244	1990-02-20	Alford				[ ]	6	4933913	1990-06-12	Thomsen				[ ]	7	5027332	1991-06-25	Alford				[ ]	8	5029146	1991-07-02	Alford				[ ]	9	5136554	1992-08-04	Thomsen et al.				[ ]	10	5214613	1993-05-25	Esmeroy				[ ]	11	6188961	1991-02-13	Mandal			
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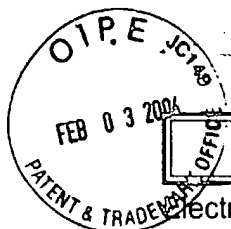
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	16	4951267	1990-08-21	Chang et al.
	17	5398215	1995-03-14	Sinha et al.
	18	4995008	1991-02-19	Hornbostel et al.
	19	5999486	1999-12-07	DeVault
	20	5835452	1998-11-19	Mueller et al.

Signature

Examiner Name	Date
	5/14/04


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PRIMARY EXAMINER

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PRIMARY EXAMINER



# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
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Application Number: 10/025528								
Confirmation Number: 6433								
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							<b>RECEIVED</b> FEB 09 2004 <b>GROUP 30</b>	
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